Ejercicio 10 sec2.1 grossman2d

BY DIEGO ALVAREZ

calcular el determinante de la matriz dada

$$A=\begin{pmatrix} 2 & 3 & -1 & 4 & 5 \\ 0 & 1 & 7 & 8 & 2 \\ 0 & 0 & 4 & -1 & 5 \\ 0 & 0 & 0 & -2 & 8 \\ 0 & 0 & 0 & 0 & 6 \end{pmatrix}$$

```
----------------------------------------------------------------------
| Sage Version 3.4, Release Date: 2009-03-11                         |
| Type notebook() for the GUI, and license() for information.        |
----------------------------------------------------------------------
Sage Version 3.4, Release Date: 2009-03-11
sage] A=matrix(QQ,[[2,3,-1,4,5],[0,1,7,8,2],[0,0,4,-1,5],[0,0,0,-
      2,8],[0,0,0,0,6]])
sage] A
```

$$\begin{pmatrix} 2 & 3 & -1 & 4 & 5 \\ 0 & 1 & 7 & 8 & 2 \\ 0 & 0 & 4 & -1 & 5 \\ 0 & 0 & 0 & -2 & 8 \\ 0 & 0 & 0 & 0 & 6 \end{pmatrix}$$

```
sage] A.determinant()
```

$$-96$$

```
sage]
```

el determinante de nuestra matriz es -96.